Rosewill®

Power Supply Turbo Series
USER Manual

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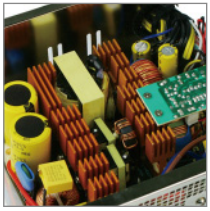
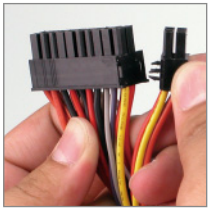
Features Descriptions

- ATX V2.2 Dual 12V Rails

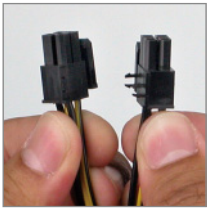


- Extreme 135mm cooling Fan

- 20+4 pin Main Connector



- 4/8-pin +12v and EPS Connector



- Dual PCI-Express Connectors for your SLI

- Four SATA Connectors

- Mirror Titanium Finish

- All cables with black mesh sleeving

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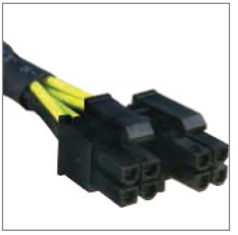
Specification

- 20+4 pin Main Connector x 1

- 4+4 pin Connector x 1
  *8 pin = EPS +12V Connector
  4 pin = +12 V Connector



- 6 pin PCI-Express Connector x 2

- 4 pin Peripheral Connector X 8

- 5 pin SATA Connector x 4

- 4 pin Floppy Connector x 2

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Input

- AC Input Voltage : 115V/230V
- AC Input Frequency : 50/60HZ
- AC input Current : 8.8A (RMS) for 115VAC Input
  5.7A (RMS) for 230VAC Input

Output

Voltage	+3.3V	+5V	+12V1	+12V2	-12V	-5V	+5VSB
MAX.Current	30A	25A	17A	18A	0.6A	0.6A	2.5A
MAX.Watt	160W		368W		7.2W	3W	12.5W
Total Watt	550W						
Regulation	±5%	±5%	±5%	±5%	±10%	±10%	±5%
Noise & Ripple (mV)	100	100	120	120	200	200	100

Overall Performance

Total Output Power : Full Load 550W at normal input voltage
Efficiency : 70% typical at full load and normal input voltage
Hold-Up Time : 17ms at full load and normal input voltage
Switching Frequency : 60HZ at normal input.
Stability : ±10%, for 12 hours after warm up.

Protection

Over Power Protection

- The whole output power is limited by over power protection. It is raging from 110% to 150% of normal rated output power.

Over voltage protection

Output Voltage	Min(V)	Max(V)
+3.3V	3.9	4.5
+5V	5.7	6.5
+12V1, +12V2	13.3	14.5
+5VSB	5.7	6.5

Short Circuit Protection
Output power +3.3V, +5V, +12V are all protected by circuit protection.

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Environment

Operation Temperature : 0°c to +40°c
Storage Temperature : 0°c to +80°c
Operating Humidity : 10% to 90% RH
Storage Humidity : 10% to 90% RH

Safety standards

TUV/CE/CB/FCC/UL

EMI Standard

Meet FCC class B and FTZ. standard.

HI-POT Testing

Input to ground : 15KVac/10mA 3 second
Input to output : 15KVac/10mA 5 second

Insulation resistance

Input to ground : Min 50MΩ
Input to output : Min 50MΩ

Reliability

MTBF : 100000 hours at 25°c ambient temperature.

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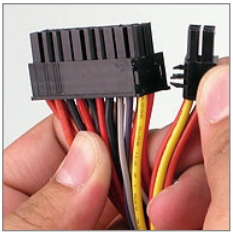
Installation

1.Installing Power supply
Affix the power supply to the case with screws.

2. 20+4 pin Main Connector

20pin

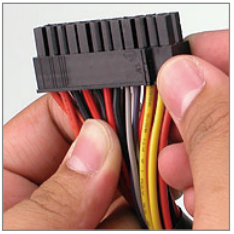
- Detach the 4 pin connector to have a 20 pin main connector



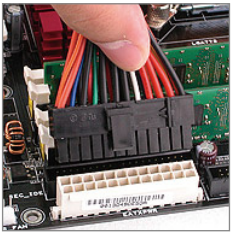
- Plug the 20 pin connector onto the motherboard.

24pin

- Attach the 4 pin connector to have a 24 pin main connector



- Plug the 24 pin connector onto the motherboard.



NOTE :
1.Confirm 20 pin or 24 pin main connector your motherboard needs before the installation.
2. 4 pin here is used for switching between 20 & 24 pin only.

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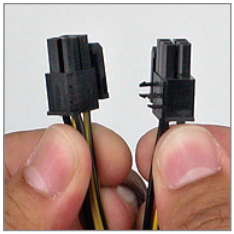
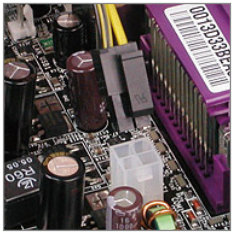
3. 4+4 pin Connector

4 pin

- Separate the 8 pin EPS +12V connector to have two 4 pin connector

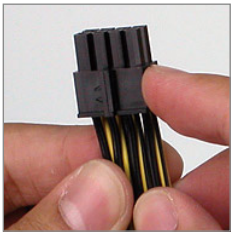


- Pick anyone 4 pin +12V connector to plug onto the motherboard



8 pin

- Combine two 4 pin connectors to have a 8 Pin EPS +12V connector



- Plug the 8 pin EPS +12V connector onto the motherboard.

NOTE :

1.Confirm 4 pin +12V or 8 pin EPS +12V connector your motherboard needs before the installation.

2.4 pin here CAN NOT be used for the main connector.

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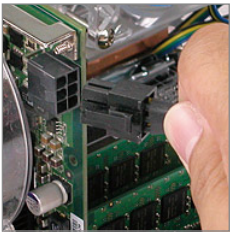
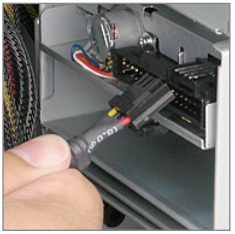
4. 6 pin PCI-Express Connector
   The 6 pin PCI-Express connector for video card only.



NOTE :
Confirm if your video card needing the 6 pin PCI-Express connector or not before the installation. Not every video card needs it.

5. 4 pin Molex Connector
   The 4 pin Molex connector used for HDD, Optical Drive and other devices needing it.

6. 4 pin Floppy Connector
   The 4 pin Floppy connectors used for Floppy disk or Zip drives.



7. 5 pin SATA Connector
   5 pin SATA connector used for SATA HDD and Optical Drive

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8. Before starting your system
   Select the proper voltage setting.
   (Setting for United States is 115 Volt)

Attach the power core to the power supply

Connect the power core to a power source.

Confirm the power supply is on

on

off

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